AUTHOR INDEX TO VOLUME 25, 1952

AKABORI, S. OHNO, K. and NARITA, K. On the hydrazinolysis of proteins and peptides: A method for the characterization of carboxyl-terminal amino acids in proteins ... 214
AKAMATSU, H. See INOKUCHI, H., 299.
ANDO, T. and ISHII, S. Identification of halogens in organic conpounds by means of paper chromatography ... 106
ANDO, T. ITO, J. ISHII, S. and SODA, T. A note on the identification of ortho-, meta and pyro-phosphates by means of paper chromatography ... 78
ANDO, T. ISHII, S. HASHIMOTO, C. YAMASAKI, M. and IWAI, K. On the constituent amino acids, N-terminal residues and the molecular weights of protamines ... 132
ANNO, T. See IMANISHI, S., 150.
ASAYAMA, O. See SENZYU, R., 312.
EBATA, M. See SATO, R., 56.
EGAMI, F. See Sato, R., 56.
FUJINAGA, T. See ISHIBASHI, M., 68, 142, 238.
FUJITA, H. NINOMIYA, K. and HOMMA, T. Mechanical properties of concentrated hydrogels of agar-agar. I. Modulus of elasticity in compression ... 374
FUJIWARA, S. Formula for the melting points of inorganic compounds of type MXO_n ... 347
FUKAI, R. Seasonal variations of minor chemical constituents in the waters of the Zunan-Kuroshio region I ... 323
FUKUDA, K. See TACHIBANA, T., 71.
FUKUHARA, S. See MATSUZAKI, K., 407.
FUKUSHIMA, S. HORIBE, Y. and TITANI, T. A study on the mechanism of the catalytic action of manganese dioxide on the decomposition of potassium chlorate by use of heavy oxygen as an isotopic tracer ... 245
HARADA, T. Fungs and enzyme preparation of Aspergillus Oryzae amylase and its use. 218
HAMAGUCHI, K. See Isemura, T., 40.
HANDA, T. See INOKUCHI, H., 299.
HASHIMOTO, C. See ANDO, T., 132.
HASHIMOTO, H. See MAKI, T., 411.
HATANO, A. See MATSUZAKI, K., 407.
HAYAMA, S. See OKAJIMA, S., 271, 275.
HIGASHI, K. Dipole moments of some hydroxyl compounds ... 159
HIROKAWA, S. KURIBAYASHI, S. and NITTA, T. The crystal structure of alpha-amino isobutyric acid ... 192
HOMMA, T. See FUJITA, H., 347.
HONDA, K. See Kikuchi, S., 98.
HORIBE, Y. See FUKUSHIMA, S., 245.
HOSHINO, H. See HOSHINO, T., 392, 396.
HOSHINO, T. MUKAIYAMA T. and HOSHINO, H. On the thermal dissociation of organic compounds. II. On the urea linkage (sym-dimethylurea, asym-dimethylurea and asym-phenylurea in butyric acid) ... 392
HOSHINO, T. MUKAIYAMA, T., and HOSHINO, H. On the thermal dissociatiou of organic compounds. III. On the ester linkage (phenylcarbaminic acid phenylester in butyric acid) ... 396
HOSOYA, T. See NAGAKURA, S., 179.
HOTTA, H. and ISEMURA, T. Studies on the gas-liquid interface by surface potential measurements III.
The surface aging of the solutions of the long-chain dibasic acids ... 101
HOTTA, H. Theory of monolayer. I. Heat of surface vaporization in the monolayer... 398
Ikeda, R. See URUSHIBARA, Y., 66.
IKEHATA, H. See MURATA, K., 352.
IMAHORI, K. The structure of surface-denatured protein. I Moleculer weight and surface area of horse serum albumin molecule 7
The structure of surface-denatured protein. II Relation between the surface diffusion constant and the shape of the protein molecule ... 10
The structure of surface-denatured protein. III Determination of the shape of surface-denatured horse serum albumin ... 13
The structure of surface-denatured protein. IV The moleculer weight, surface area and shape of the surface-denatured hemoglobin molecule ... 121
IMANISHI, S. SEMBA, K. Ito, M. and ANNO, T. The near ultraviolet absorption spectra of acetophenone and benzophenone vapours and long wavelength absorption system of benzaldehyde vapour ... 150
IMANISHI, S. and ITO, M. The near ultraviolet absorption spectrum of *p*-cresol vapour ... 153
INABA, A. Wettability of solid surface. V... 174
INOKUCHI, H. The electrical conductivity of the condensed polynuclear aza-aromatic compounds ... 28
INOKUCHI, H. SHIBA, S. HANDA, T. and AKAMATSU, H. Heats of sublimation of condensed polynuclear hydrocarbons ... 299
INOKUCHI, K. See TACHIBANA, T., 71.
ISEMURA, T. and HAMAGUCHI, K. Surface chemistry of synthetic protein analogues ... 40
ISEMURA, T. See HOTTA, H., 101.
ISHIBASHI, M. and FUJINAGA, T. Studies on the polarographic analysis. XI ... 68
Amperometric titrations. IV ... 142
Studies on the polarographic analysis. XII New differential polarography with one dropping electrode (2) ... 238
ISHII, S. See ANDO, T., 78.
ISHIKAWA, J. Note on the ideal mixture law for viscosity ... 38
ITO, J. See ANDO, T., 78.
ITO, M. See IMANISHI., 150.

IWAI, K. See ANDO, T., 132.
IWASAKI, I., UTSUMI, S. and OZAWA, T. New colorimetric determination of chloride using mercuric thiocyanate and ferric ion 226
IZAWA, M. Monolayers of branched-chain fatty acids
I 182
II 314
IZUMIYA, N. and NAGAMATSU, A. Walden inversion of amino acids. VI The synthesis of D-surinamine (N-methyl-D-tyrosine) ... 265
KAMBARA, T. Concentration polarization and the polarographic current-time curve. II... 281
Researches on the polarographic diffusion current. III 284
KAMBARA, T. and TAICHI, I. Concentration polarization and the polarographic current-time curve. I. 135
KASHIMA, M. Molecular structure of monochloromethyl chloroformate 79
KASIWAGI, H. Stereomerisierung der α-Bromallozimmtsäure und eine vorläufige Bemerkung über des Additionsprodukt von Bromwasserstoff zu Phenylpropiolsäure..... 81
KAWAI, T. Notes on the polymer-mixed solvent system I..... 336
II 341
KAWASUMI, S. Equilibrium of the Co_2-NH_3-Urea-H_2O system under high temperature and pressure. II
Liquid-vapour equilibrium in the loading mole ratio of ?NH_3 to 1 CO_2..... 227
KIKUCHI, S. SAKAGUCHI, Y. and HONDA, K. Pen writing polarograph with dirrect current amplifier. Study of *p*-nitrosodiethylaniline 98
KIMIZUKA, H. See Sasaki, T., 318.
KIRIYAMA, R. and IBAMOTO, H. Dielectric dispersion of copper sulphate pentahydrate crystals..... 359
KITA, M. See TOYAMA, Y., 355.
KITAMURA, S. See MATSUI, M., 210.
KOBAYASHI, K. See OKAJIMA, S., 271, 275.
KOBAYASHI, Y. See OKAJIMA, S., 268.
KUME, S. See OTOZAI, K., 302.
KURATA, M. See TAMURA, M., 32.
KURATA, M. See SIMAMURA, O., 76.
KURATA, M. See TAMURA, M., 124.
KURATA, M. On the Vapor Pressure of Liquid Mixture (1) 363
KURATANI, K. The infrored dichroism of amides 258
KURATANI, K. TSUBOI, M. and SHIMANOUCHI, T. Infrared absorption studies of tropolone and allied compounds..... 250
KURI, Z. and SHIDA, S. The photopolymerization of acetylene. On the formation of cyclooctatetraene 116
KURIBAYASHI, S. See HIROKAWA, S., 192.
KUROYA, H. See TANITO, Y., 188, 328.
See NAKAHARA, A. 331.
MAKI, T. and HASHIMOTO, H. Vat dyes of acenaphthene series. IV Condensation of perylenetetracarboxylic acid anhydride with *o*-phenylenediamine 411
MATSUI, M. OHNO, T. KITAMURA, S. and TOYAO, M. Études sur les lactones dérivés des acides chrysanthémiques..... 210
MATSUMOTO, T. Analytical chemistry by means of oxalic acid. I On the quantitative analysis of strontium 242
MATSUMOTO, T. Analytical chemistry by means of oxalic acid. II On the quantitative analysis of barium (I) 361
MATSUZAKI, K. FUKUHARA, S. HATANO, A. and SOBUE, H. Fractionation of cellulose acetate and distribution of non-cellulosic components between the fractions 407
MESHITSUKA, G. The relation between the second virial coefficient of osmotic pressure and the molar volume of solute (abstract). 309
MIYAHARA, Y. Adiabatic compressibility of aqueous solution. I 326
MIZUHARA, Y. Synthetic studies on the Δ^2-derivatives of selenazolines..... 263
MIZUSHIMA, S. See YASUMI, M., 132.
MUKAIYAMA, T. See HOSHINO, T., 392, 396.
MURAI, K. See SHIBATA, K., 261.
MURAMATSU, M. and SASAKI, T. On the nature of built-up film. I 21
II 25
MURATA, K. Synthesis of 2-amino-4-methyl-5-cyanothiazole from acetonitril 16
MURATA, K. and IKEHATA, H. Synthesis of 2-amino-4-methyl-5-aminomethylthiazole. 352
NAGAKURA, S. On the electronic structure of the carbonyl and amide groups 164
NAGAKURA, S. and HOSOYA, T. Studies on the conjugated double bond systems. VIII. 179
NAGAMATSU, A. See IZUMIYA, N., 265.
NAKAGAWA, T. Spinnability of liquid. A visco-elastic state. I Spinnability and anomolous viscosity 88
Spinnability of liquid. A visco-elastic state. II. Spinnability and visco-elastic property..... 93
NAKAGAWA, T. Heat of wetting of polysaccharides. I Heats of wetting of various polysaccharides 169
Heat of wetting of polysaccharides. II A rule which exists between adsorption isotherm and heats of wetting of polysaccharides..... 171
NAKAHARA, A. SAITO, Y. and KUROYA, H. The crystal structure of trans-dichlorodiethylenediaminecobalt. III..... 331
NAKAMOTO, K. Dichroisms of benzene rings. III The dichroism of *m*-nitrosobenzene monomer 255
NAMBA, Y. and ODA, T. X-ray investigation of trimethylacetic acid crystal 225
NARITA, K. See AKABORI, S., 214.
NINOMIYA, K. See FUJITA, H., 374.
NISHIMURA, J. Antituberculous compounds. I. 54
NITTA, I. See HIROKAWA, S., 192.
NIWA, M. See SATO, R., 202.
NODA, T. and SATO, S. X-ray study of carbon brushes 195
ODA, T. See NAMBA, Y., 225.
OGATA, Y., OKANO, M. and YAMAMOTO, T.

The salt effect in the aniline formaldehyde condensation 86
OHNO, K. See AKABORI, S., 214.
OHNO, T. See MATSUI, M., 210.
OHNO, T. The bitter substance produced in black-rotten sweet potato. II 222
OHNO, T. and TOYAO, M. The bitter substance, produced in black-rotten sweet potato. III. On the constitution of ipomeamarone. part 2 414
OHYAMA, Y. On the properties of 1-thiolbenzthiazole derivatives as photographic addition agents 18
OKAJIMA, S. and KOBAYASHI, Y. Dichroic study of polyvinylalcohol fibre. II Effect of the crystallinity and moisture content of the fibers on their deformation 268
OKAJIMA, S. HAYAMA, S. and KOBAYASHI, K. Heterogeneous structure of rayon I. Some obserbations of the heterogeneous acetylation of rayon 271
Heterogeneous structure of rayon. II Orientation degree of the skin and core of rayons 275
OKANO, M. See OGATA, Y., 86.
OKI, M. See URUSHIBARA, Y., 66.
OKI, M. and URUSHIBARA, Y. Estrogenic action and molecular structure..... 109
OKI, M. Estrogenic thio-analogs of the dimethyl ethers of diethylstilbestrol, its homologs and hexestrol 112
ONO, S. and YAMAUCHI, T. Electrolytic Reduction of Aromatic Carboxylic Acids I. Reduction of Benzoic Acid under pressure... 404
OTOZAI, K. KUME, S. and FUKUSHIMA, S. Closure, resonance, bond and activation entropy 302
OZAWA, T. See IWASAKI, I., 226.
SAKABE, T. and SASSA, R. An aromatic hydrocarbon isolated from coal bitumen..... 353
SAITO, Y. See TANITO, Y., 188, 328.
NAKAHARA, A., 331.
SAKAGUCHI, Y. See KIKUCHI, S., 98.
SASAKI, T. See MURAMATSU, M., 21, 25.
SASAKI, T. and KIMIZUKA, H. Physico chemical properties of the surface of aqueous solution. III..... 318
SASSA, R. See SAKABE, T., 353.
SATA, S. See TAMURA, M., 124.
SATO, R., EBATA, M. and EGAMI, F. Studies on nitrate reductase. VI..... 56
SATO, R. and NIWA, M. Studies on nitrate reductase. VII 202
SATO, S. See NODA, T., 195.
SEMBA, K. See IMANISHI, S., 150.
SENJU, R. Eine neue Bestimungsmethode von Ligninsulfosäure in Sulfitablauge..... 131
SENZYU, R. und ASAYAMA, O. Ueber die spezielle Reaktionsfähigkeit der beiden Endgruppe von langer Kette..... 312
SHIBA, S. See INOKUCHI, H., 299.
SHIBATA, K. and MURAI, K. The change of molecular weight of egg albumin in aqueous solutions 261
SHIBATA, K. The spectroscopic properties of conjugated systems 378
SHIDA, S. See KURI, Z., 116.
SIMAMURA, O. INUKAI, T. and KURATA, M. Influence of substituent groups on nuclear reactivity in formations of substituted biphenyls through reactions of aromatic diazo and cognate compounds with aromatic liquids. II 76
SHIMAMURA, O. and HAMASHIMA, M. A note on the accelerating action of biacetyl and benzil on the autoxidation of cyclohexene. 358
SHIMANOUCHI, T. See KURATANI K., 250.
SHIMURA, Y. The relation between the geometrical configurations of inorganic complexes and their absorption bands. II. The configurations of two isomers of sodium disulfonotetrammine-cobaltiate 46
The relation between the geometrical configurations of inorganic complexes and their absorption bands. III. A general rule for the first and second bands of Co (III) complexes 49
SHIRAI, M. See YASUMI, M., 132.
SHISHIDO, S. On the acidity of boric acid. I 199
SODA, T. See ANDO, T., 78.
SOBUE, H. See MATSUZAKI, K., 407.
SONE, K. Spectrochemical studies on the anomalous color reaction of some iron (II) chelate compounds..... 1
SUETAKE, W. On the molecular Structures of synthetic estrogens. I. On meso-hexestrol dimethyl ether and trans $\alpha'\alpha'$-bis(methylthio) stilbene 402
SUETUNA, A. Uber die Reinigung des Rubidiums, Umkrystallisation des Rubidiumtetraoxalates 248
SUZUKI, H. The spatial configurations and ultraviolet absorption spectra of the stilbene derivatives 145
SUZUKI, K. See TACHIBANA, T., 71.
SUZUKI, S. Electron microscopic observation of aluminum chloride 279
TACHI, I. See KAMBARA, T., 135, 284.
TACHIBANA, T., FUKUDA, K., INOKUCHI, K., YAMAOKA, S. and SUZUKI, K. Surface films of azo-proteins 71
TAKEDA, M. and TURUTA, E. Abnormal viscosity of polyvinyl chloride in extremely dilute solutions 80
TAMAMUSHI, R. On the mechanism of the reduction process of the hydrogen ion at the dropping mercury electrode. I. Theoretical part..... 287
On the mechanism of the reduction process of the hydrogen ion at the dropping mercury electrode. II. Experimental part-the limiting current of the hydrogen wave 293
TAMURA, M. and KURATA, M. On the viscosity of binary mixture of liquids..... 32
TAMURA, M. KURATA, M. and SATA, S. On the viscosity of solutions of non-electrolytes 124
TANAKA, T. See TOYAMA, Y., 355.
TANITO, Y. SAITO, Y. and KUROYA, H. The crystal structure of trinitrotriammine-cobalt (III), $[Co(NH_3)_3(NO_2)_3]$ 188

The crystal structure of "dichrochloride" $[Co(NH_3)_2H_2OCl_2]Cl$ 328
TITANI, T. See FUKUSHIMA, S., 245.
TOYAMA, Y. KITA, M. and TANAKA, T. Sterols and other unsaponifiable substances in the fats of shell fishes, crustaces and echinodermata. X..... 355
TOYAO, M. See MATSUI, M., 210.
TOYAO, M. See OHNO, T., 414.
TSUBOI, M. On the hydrogen-bond-forming powers of atoms or atomic groups..... 60
On the molecular state of water bound to the peptide linkage..... 160
TSUBOI, M. See KURATANI, K., 250.
TSUBOI, M. Ultraviolet absorption spectra of troponoids..... 369
TSUBOI, M. On hydrogen bonds intimately related with π-electron systems..... 385
TSUCHIDA, R. See YAMADA, S., 127.
TURUTA, E. See TAKEDA, M., 80.
URUSHIBARA, Y. See Oki, M., 109.
URUSHIBARA, Y. A new method of catalytic hydrogenation..... 280
URUSHIBARA, Y., ŌKI, M. and IKEDA, R. 1, 2-Bis-(*p*-methoxyphenyl)-1-(methylthio)-butane, 1, 2-bis (*p*-methoxyphenyl)-1-(methylthio)-2-methoxyethane and 1, 2-bis-(*p*-methoxyphenyl)-1, 2-bis-(methylthio)-ethylene. Estrogenic sulfur analogs of Hexestrol dimethyl ether and of diethylstilbestrol dimethyl ether 66
WADA, A. On a relation between dielectric constant and heat of vaporization of non-polar liquids 401
YAMADA, S. and TSUCHIDA, R. Spectrochemical study of microscopic crystals. II. Dichroism of cobalt (III)-praseo salts 127
YAMAGUCHI, T. See ONO, S., 404.
YAMAMOTO, T. See OGATA, Y., 86.
YAMAOKA, S. See TACHIBANA, T., 71.
YAMASAKI, M. See ANDO, T., 132.
YASUMI, M. SHIRAI, M. and MIZUSHIMA, S. Atomic polarization of aliphatic alcohols in the liquid state 132
YASUMORI, I. On the binding energy of LiH. 358